	/1 282 E PSN	12/02 122	42	ВС	DRNU	JM _	1		DEPARTMENT OF				HOLE	DN-X-1		
F	REGIO	8_ <b>NC</b>						_	GEOTECHNICAL EN SUBSURFACE E				LINE		-	
	OUN PIN		<u>/ESTC</u> 101.45		IER			_	OODOO!!! MOL L	A LOTO THE	11 200		STA OFFSET	ft		
F	PROJ	ECT H	UTCH	INSC					SERVICE AREA E				SURF. ELEV	81.41		
1	ACTU	AL COC	ORDIN	ATES		(1) 781 <b>Dat</b> e			(E) 704,063.560 19-OCT-2015	DATUM DATE F	NAD8	33 <b>[</b> 19-0CT-2		VATER SE	E NOTE	
(	CASIN	G 0.1	D. 4	1/2 ir			. 31 <i>1</i> . 4		in WT OF HAMME		IIVION _		HAMMER FAL	L-CASING		in
		LER O.1		ir		l. D	), 1	1/2	n WT OF HAMME	R-SAMPLER	140	lb F	HAMMER FAL	L-SAMPLER	30	in
•	, ≝ │	<b>≠&gt;</b> ‼	щ			vs or										
1413	MS	LOY	SAMPLE NO.	S	AMP	LER i	n	MOIST. CONT.		DES	CRIPTIO	N OF SOIL	AND ROCK			
ť	BLOWS/ft	DEPTH (t BELOW SURFACE	SAI	/		12		(%)								
		0.0		6	<b>12</b>	<b>/</b> 18	<u> 24</u>		(0.00) .	Hand Dug	To 4 Ft.	To Expose	Location Of	Utility.		
									(4111)			·		·		
ŀ																
	ŀ		1													
			J1	2	,			4%	(4.00) Grey E	Brown Silty S	ÄND Gra	avelly W/ M	lica & Organ	nics	(M-N	PL)
		5.0	R1	<u> </u>	6				(5.00) Run #	Drilled from	5'0" To	10'0" RO	<u>ск</u>			
									REC.	59" 98.3% OUBLE TUB	10 pcs	S				
									NVV	JOBEL 101	L, Q****					
	l															
	- 1		-	!												
			ļ													
		10.0		· '				•								
	ŀ	10.0	R2			ļ		<del> </del>	(10.00) Run #				OCK			
	]		-						REC.	59" 98.3% OUBLE TUE	11 pc: E. SWIV	s /EL				
											_,					
	Ì		1													ļ
			1			İ	•									
			1													
		15.0														
r			<u>.</u>			.1	•	·	BOTT	OM OF HOL	E AT 15	.00 ft				
				NOT												
				1) No 2) Au	wate Itoma	er tab etic ha	le en amm	ncounte er used	red. I on sampler.							İ
				3) H	ole pi	rogre	ssed	by pre	ssed casing to rock.							
																,
-	The	- cuheurf	ace inf	ormet	ion el	իլուտ	here	was oh	tained for design	DRILL RI	G OPERA	ATOR	L. Darrov			
	ano	l estimate	e purpa	ses.	It is r	nade	avail	able so	that users may have			SCRIPTION	T. Twerd	ak		
	pre.	sented in	good i	faith.	By th	ne nat	ure c	f the ex	State. It is ploration process,	REG GEO		I <b>CAL</b> ul Salchert				
	the	informati	on rep	resen	ts on	lv a si	mall f	raction	of the total volume	DATE AP	PROVED	11-DEC				
	of ti not	he materi be indica	iai at th ative of	ie site the a	: Inte ctual	erpoia mate	rial e	ncounte	n data samples may ered.	RESIDEN				B.I.N.		
										STRUCT	JKE NAN	NE				
	СО	NTRACT	Г <u>D26</u> 2	2 <u>599</u>	CON	ITRA	СТОІ	R Aqu	ifer Drilling &Testing	SHEET 1	OF 1		HC	DLE DN-	X-1	-
L																

SM 282 <b>PSN</b>	E 12/02 1224	12	D.	ואסר	UM	2				NEW YORK	ATION		HOLE	DN-X-2	
REGI		+4		JKIN	OIVI _		_	GEOTECHN	IICAL ENG	SINEERING E	BUREAU		LINE		
COU		/EST	CHES	TER			_	SUBSURF	ACE EX	PLORATIO	N LOG	=	STA		
PIN		<u>101.45</u>						, OED) ((OE )	DEAEV	DANIGION			OFFSET		
								SERVICE A (E) 704,090		DATUM	NAD83	3		<b>:V.</b> <u>80.69</u> <b>WATER</b> S	EE NOTE
ACIC	JAL COC	NUIN	MILC		DAT			16-OCT-20		DATE F			T-2015	<u>.</u>	
CASI	NG 0. [	D. 4	1/2 ir		I. D		-		HAMMER-	CASING		lb		ALL-CASING	in
SAME	LER O.	<b>)</b> . 2	ir	n	I. E	D. 1	1/2	in WT OF	HAMMER-	SAMPLER	140	lb	HAMMER FA	ALL-SAMPLER	30 in
ე#	⊭>਼੫	ш	E	BLOV	NS O	N	 								
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP	LER	in	MOIST.			DESC	CRIPTION	OF SO	IL AND ROC	K	
SCA.	DEF BE SUR	SAI	0 /	6 /	12/	18	(%)								
_			<b>6</b>	12	18	24	7.1%	(0.00)	Brown C	Gravelly SA	NID Ciley V	M/ Mica			(M-NPL)
	0.0	J1	-	6			1.170	(0.00)	BIOWIT	olavelly on	ND Only V	W/ WIIGG			(/
					8										
		10	<u> </u>		<b>-</b>	7	15.6%		White C	ray Gravell	~ <u>~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ </u>	21167 VAT	Mica		(M-NPL)
		J2	6	4			10.0%	(2.00)	vvriite G	nay Graven	y SAND C	Jilly VV7	MICA		(14.14.2)
					5										
		- D.4	<u> </u>		<u> </u>	8	L			Drilled from		ก <sub>ู้กัก</sub> - 🗗	~~~		
	5.0	R1						(4.00)	REC. 6	30" 100%	4 pieces	S	JON		
									NW DO	UBLE TUB	E, SWIVE	EL			
,															
	R2 (9.00) Run #2 Drilled from 9'0" To 14'0" ROCK														
	<u> </u>	R2	1				T	(9.00)	Run #2	Drilled from	19'0" To	74′0″ R	ROCK	_	
	10.0	]	1				ļ		NW DC	60" 100% OUBLE TUB	s piece: E, SWIVE	s EL			
					1						_, -				
		1													
	<u> </u>	-					1								
					<u> </u>	<u> </u>	<u> </u>	<u> </u>	BOTTO	M OF HOL	E AT 14.0	00 ft			
			NOT												
			NOT	wat	er tak	ole er	ncounte	red.							
			2) Pr	ogre:	ssed	hole	with co	ntinuous soil	sampling	g ahead of o	casing.				
			3) At	itoma	atic n	amm	er usec	l on sampler.							
															J
İ															
The	e subsurfa	ace inf	ormat	tion s	hown	here	was ob	tained for de	 sign	DRILL RIC			L. Darr		
and	d estimate	e purpo	oses.	It is I	made	avail	able so	that users m	ay have	SOIL & R			ON T. Twe	rdak	
acc	cess to the	e same	e infoi faith	rmatio Bv fl	on ava he na	ailabh ture r	e to the of the ex	State. It is ploration pro	cess.	REG GEO	TECHNIC ER <u>Pau</u>		>rt		
the	informati	on rep	resen	its on	ily a s	mall i	fraction	of the total vo	olume	DATE AP					
of t	he materi be indica	al at tl	he site	e. Int	erpola	ation	betwee	n data sampli	es may	RESIDEN					
not	pe indica	we o	me a	ıcıual	male	niai e	noount	oreu.		STRUCTU	JRE NAMI	E		B.I.N	
								re - Barr - A	Tackin -	CUEET 4	OF 4		F	IOLE DN	-X-2
CC	NTRACT	<u>D26</u>	<u> 2599</u>	CON	NTRA	СТО	R <u>Aqu</u>	ifer Drilling &	<u>i esting</u>	SHEET 1	<u> UF 1</u>			OLL DIV	,,,_

PSN PSN REGIO COUN	12 ON _	242 8 WEST 8101.4	CHEST	RNUM _	3	STATE OF N DEPARTMENT OF T GEOTECHNICAL ENG SUBSURFACE EXF	RANSPORTA INEERING B	UREAU		HOLE DN-X	-3				
PROJ	IAL C	HUTCH	HINSO IATES	(N) 78 <b>DAT</b> I		SERVICE AREA EXE (E) 704,117.490 19-OCT-2015 in WT OF HAMMER-	DATUM DATE FI		3 19-OCT-	SURF. ELEV. 80. DEPTH TO WATER	SEE NOT	E			
		). D. 2				in WT OF HAMMER-		140		HAMMER FALL-SAM		in			
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		LOWS OF	in MOIST CONT 18 (%)		DESC	RIPTION	OF SOIL	AND ROCK	-				
	0.0					(0.00)	Hang Dug	To 1'-0"	To Local	te Utility.					
ŀ		J1	30		2.6%	(1.00) Gray Sa	ndy GRAVE	EL Silty V	// Mica			(D)			
-				50		(2.00)	Top Su	rface Of	Rock.						
-	R1 (3.00) Run #1 Drilled from 3'0" To 8'0" ROCK REC. 58" 96.7% 9+ pcs and 1 bag NW DOUBLE TUBE, SWIVEL  5.0  R2 (8.00) Run #2 Drilled from 8'0" To 13'0" ROCK REC. 55" 91.7% 8+ pieces NW DOUBLE TUBE, SWIVEL														
	REC. 55" 91.7% 8+ pieces														
,						BOTTO	M OF HOL	E AT 13.0	00 ft						
	REC. 55" 91.7% 8+ pieces NW DOUBLE TUBE, SWIVEL														
and acc pre the of t not	d estima eess to sented inform he mat be ind	ate purp the sam in good ation rep erial at t icative c	oses. I e inforr faith. I present he site. f the ad	It is made mation ave By the na 's only a s Interpole ctual mate	available so ailable to the ture of the e mall fraction ation betwee erial encoun	otained for design to that users may have state. It is exploration process, of the total volume en data samples may ered.	REG GEO	DCK DES TECHNIC ER Pau PROVED TENGINE IRE NAM	CRIPTIO CAL II Salcher 11-DEC EER	C-2015 	<b>N</b>				

PSN	E 12/02 122		В	ORN	JM _	4		STATE OF N DEPARTMENT OF T	RANSPORT			HOLE _	DN-X-4	
REGI		VESTO	HES	STER			<del>.</del>	GEOTECHNICAL ENG SUBSURFACE EXF				LINE _ STA		
PIN	8	101.45	5				 		ANGION		<del></del>	OFFSET _	ft	
	JECT <u>H</u> JAL COO							<u>' SERVICE AREA EXF</u> (E) 704,135.020	DATUM	NAD8		SURF. ELEV. DEPTH TO WA		E NOTE
0.00			4.00		DAT		_	15-OCT-2015 in WT OF HAMMER-0	DATE F	INISH _	15-OCT	-2015 HAMMER FALL-	CASING	in
CASII SAMF	NG O. I PLER O. I		1/2 i: i:		I. C			in WT OF HAMMER-0 in WT OF HAMMER-9		140		HAMMER FALL		30 in
G s/ft	≠≥ÿ	щ		BLOV			MOIST.							
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		AMP			CONT.		DESC	RIPTION	OF SOIL	AND ROCK		
P.C.	Seg	/S	0		12 18		` ´							
	0.0			"				(0.00)	12 Inches	Asphalt	Pavemen	t		
		J1	15				9.8%	(1.00) Brown G	ravelly SAI	ND Silty	W/Mica ¯			(M-NPL)
				14	13									
		J2	21			12	12%	(3.00) Light Bro	wn Gravel	V SAND	Siltv W/ I	 Mica		(M-NPL)
		"-	-	19			,	(6,60)		,	,			-
	5.0				24	36		L						
	J3 7 9.7% (5.00) Brown Gravelly SAND Silty W/ Mica (M-NPL)													
	20													
	J4 16 15% (7.00) Brown Gravelly SAND Silty W/ Mica (M-NPL)													
	10.0	J5	8				32.2%	(9.40)	Top Surf	ace Of F	Rock.			
		R1					1	(10.00) Run #1 I REC. 6	0" 100%	25+ pc	s	ROCK		
	<u> </u>							NW DOI	JBLE TUB	E, SWIV	EL			
	<u> </u>	+												
	<u> </u>	_					!							
	L	_												
	15.0				<u> </u>		<u> </u>	(15.00) Run #2	5.41.7 5.13	. ಇಪನ್ ಕ		<u> </u>		
		R2				1		REC. 6	0" 100%	18+ pc	∷s (see n	ote)		,
								NW DO	JBLE TUB	E, SVVIV	EL			
		1												
		-					1							
	<u> </u>	-	İ				1	ļ						
	20.0				<u> </u>			POTTO	M OF HOL	E AT 20	00 ft			
								ВОТТО	IVI OF FIOL	.L A 1 20	.00 It			
			NO7 1) W	/ater	level	depti	h at coi	mpletion of drill hole.	9'-2"	!				
			- (Υ) Δ.	utom	atic h	amm	er usei	ontinuous soil sampling d on sampler.			,			
			4) In	Core	e Rur	#2,	noted a	a 5" thick, weak, weath	ered seam	at 16.21	t.			
Th	e subsurfa	ace inf	orma	tion s	hown	here	was of	tained for design	DRILL RIC			L. Darrow		
and	d estimate	e purpo e same	oses. e info	It is i rmatic	made on av	avail ailabl	lable so le to the	that users may have State. It is	SOIL & RO			N T. Twerdal	<u> </u>	
nre	esented in	aood	faith.	Bv ti	he na	ture o	of the ex	xploration process, of the total volume		ER Pai	ul Salcher	rt		
of	the mater t be indica	ial at tl	he site	e. Int	erpol	ation	betwee	n data samples may	RESIDEN			<u></u>		
) no	ı pe inaice	auve Oi	rne a	actual	matt	andi 6	, i courit	orou.	STRUCTU	JRE NAM	1E		B.I.N	
CC	ONTRACT	NTRACT D262599 CONTRACTOR Aguifer Drilling & Testing SHEET 1 OF 1 HOLE DN-X-4												

PSN REGI COUI PIN PRO	ON	VEST( 101.45 UTCH	CHEST	N RIVER (N) 78	PARKWAY	STATE OF N DEPARTMENT OF I GEOTECHNICAL ENG SUBSURFACE EX SERVICE AREA EX (E) 704,109.530 15-OCT-2015	RANSPORT SINEERING PLORATIO	BUREAU IN LOG NAD83	3 15-OC1	LINE STA OFFSET SURF, ELEV DEPTH TO V		EE NOTE		
CASIN SAMP	NG O.I		1/2 in in		). 4	in WT OF HAMMER-	CASING	140	lb lb	HAMMER FAL		in 30 in		
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		OWS OF	in MOIST. CONT. (%)		DES	CRIPTION	OF SOI	L AND ROCK				
	0.0					(0.00)		nes Of As		vement				
		J1	21	18 32	9.1%	(1.00) Gray Sa	ndy GRAV	EL Silty W	V/Mica	— — — — — — — — — — — — — — — — — — —		(W-NPL)		
			ļ			(2.60)		face Of R						
	5.0	R1						11+ pcs	s and 3 I	oCK bags ( see no	te)			
	R2 (8.00) Run #2 Drilled from 8'0" To 13'0" ROCK REC. 60" 100% 11 pcs NW DOUBLE TUBE, SWIVEL													
	15.0	R3				(13.00) Run #3 REC. ( NW DO	Drilled from 50" 100% UBLE TUE	14+ pcs	s (see r	ROCK ——— note )				
		<u> </u>			]	BOTTO	M OF HOL	F AT 18 (	nn ft	<del></del>				
	NOTES:  1) No water table encountered. 2) Hole progressed by spinning casing to rock. 3) Automatic hammer used on sampler. 4) In Core Run #1, noted a 7" thick, weak, weathered seam at 5.1 ft. 5) In Core Run #3, noted 3" thick, weak, weathered seam at 17.5 ft.													
and acc pre the	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have cocess to the same information available to the State. It is resented in good faith. By the nature of the exploration process, he information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may of the indicative of the actual material encountered.  DRILL RIG OPERATOR  SOIL & ROCK DESCRIPTION  T. Twerdak  REG GEOTECHNICAL  ENGINEER  DATE APPROVED  14-DEC-2015  REVISION # 1  RESIDENT ENGINEER  STRUCTURE NAME  B.I.N.													

CONTRACT D262599 CONTRACTOR Acquirer Drilling & Testin SHEET 1 OF 1

B.I.N. \_\_\_\_

REGION 8 SUPPLY AND THE SUPPLY AND T	PSN	E 12/02 122		_ B(	DRN	UM _	6		DEPARTMENT OF				HOLE DA	√-X <b>-</b> 6	
PIN				CHES	TER	<u> </u>		<del>_</del>					LINE		
ACTUAL COORDINATES   N.) 787 859 410   (E) 704,084.590   DATUM   NAD83   DEPTH TO WATER   SEE NOTE	PIN	8	101.45	5			DAF	_ 	OFFICE AREA EV	DANCION		<del>-</del>	OFFSET ft		
DATE START   14-OCT-2015   DATE FINSH   14-OCT											NAD8	3			E NOTE
SAMPLER 0.D. 2 in L.D. 11/2 in WTOF HAMMERSAMPLER 140 ib MAMMERFALL-SAMPLER 30 in SAMPLER in COURT.  DESCRIPTION OF SOIL AND ROCK    Country   Cou						DAT	E ST/	ART _	14-OCT-2015	DATE F		14-OC	T-2015		-
DESCRIPTION OF SOIL AND ROCK    Solid											140				
The subsurface information shown hare was obtained for design and estimate purposes. It is made available so that users may have scress to the same information exhalted to the State. It is presented in good faith. By the nature of the explosition process, the information corpressed only a small fraction of the false incomments on the material of the self-process, the information corpressed only a small fraction of the false incomments.    The subsurface information shown hare was obtained for design and estimate purposes. It is made available so that users may have scress to the same information available to the State. It is presented in good faith. By the nature of the explosition process, the information corpressed only a small fraction of the false volume of the material of the self-procession process, the information corpressed only a small fraction of the false volume of the material of the self-procession process, the information corpressed only a small fraction of the false volume of the false for the false volume of the self-procession process. The information represents only a small fraction of the false volume of the self-procession process. The information represents only a small fraction of the false volume of the self-procession process. The information represents only a small fraction of the false volume.    The subsurface information shown hare was obtained for design and estimate purposes. It is made available to the State. It is processed in the self-procession process. The information represents only a small fraction of the false volume.    The subsurface information shown hare was obtained for design and estimate purposes. It is made available to the State. It is not the false of the self-process. The information represents only a small fraction of the false volume.    The subsurface from 30° To 30°				F	RI OV	VS O									
The subsurface information shown hare was obtained for design and estimate purposes. It is made available so that users may have scress to the same information exhalted to the State. It is presented in good faith. By the nature of the explosition process, the information corpressed only a small fraction of the false incomments on the material of the self-process, the information corpressed only a small fraction of the false incomments.    The subsurface information shown hare was obtained for design and estimate purposes. It is made available so that users may have scress to the same information available to the State. It is presented in good faith. By the nature of the explosition process, the information corpressed only a small fraction of the false volume of the material of the self-procession process, the information corpressed only a small fraction of the false volume of the material of the self-procession process, the information corpressed only a small fraction of the false volume of the false for the false volume of the self-procession process. The information represents only a small fraction of the false volume of the self-procession process. The information represents only a small fraction of the false volume of the self-procession process. The information represents only a small fraction of the false volume.    The subsurface information shown hare was obtained for design and estimate purposes. It is made available to the State. It is processed in the self-procession process. The information represents only a small fraction of the false volume.    The subsurface information shown hare was obtained for design and estimate purposes. It is made available to the State. It is not the false of the self-process. The information represents only a small fraction of the false volume.    The subsurface from 30° To 30°	SING WS/	LOW	MPLE O							DESC	CRIPTION	OF SO	IL AND ROCK		
The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have societs to the same information represented in good faith. By the nature of the subcrisc to the material of the size from attended to the size. The subsurface information available to the Stafe. It is good faith by the nature of the size from the size of the size. The subsurface information available to the Stafe. It is made available so that users may have societs to the same information available to the Stafe. It is made available of the size of t	A S	DEF SUR	SAI		6/			(%)							
The subsurface information shown here was obteined for design and estimate purposes. It is made available to the State. It is greated to the State. It is made available and the state of the expectation process. the information represents only a small factor of the toler should be indicative of the state indicative of the actual material encountered.  DRILL RIG OPERATOR  L. Darrow  Soil & ROCK DESCRIPTION  T. Tiverdak.  REC. 60° 100% 8+ pcs.  NW DOUBLE TUBE, SWIVEL.   BOTTOM OF HOLE AT 13:00 ft  NOTES.  1) Advantation shown here was obteined for design and estimate and expensive the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the separation process.  The information represents only a small factor of the toler shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the sho				6	/ 12	<u>/ 18</u>	24		(0.00)	12 lr	iches Asp	halt Pa	vement		
The subsurface information shown here was obteined for design and estimate purposes. It is made available to the State. It is greated to the State. It is made available and the state of the expectation process. the information represents only a small factor of the toler should be indicative of the state indicative of the actual material encountered.  DRILL RIG OPERATOR  L. Darrow  Soil & ROCK DESCRIPTION  T. Tiverdak.  REC. 60° 100% 8+ pcs.  NW DOUBLE TUBE, SWIVEL.   BOTTOM OF HOLE AT 13:00 ft  NOTES.  1) Advantation shown here was obteined for design and estimate and expensive the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the state of the separation process.  The information represents only a small factor of the toler shown and the separation process.  The information represents only a small factor of the toler shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the shown and the sho			J1	18				2.9%	(1.00) Grav S	andv SILT G					<sub>(D)</sub>
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REC. 60" 100% 3+ pcs  NW DOUBLE TUBE, SWIVEL  R2  10.0  R2  R2  10.0  R3  R6C 86" 100% 3+ pcs  NW DOUBLE TUBE, SWIVEL  RCC 88" 96.7% 9+ pcs  NW DOUBLE TUBE, SWIVEL  BOTTOM OF HOLE AT 13.00 ft  NOTES: 1) No water table anountered. 2) Progressed hole with continuous sampling ahead of casing. 3) Automalic hammer used on sampler.  BOTTOM OF HOLE AT 13.00 ft  NOTES: 1) No water table anountered. 3) Automalic hammer used on sampler.  BOTTOM OF HOLE AT 13.00 ft  NOTES: 1) No water table anountered. 3) Automalic hammer used on sampler.  BOTTOM OF HOLE AT 13.00 ft  NOTES: 1) No water table anountered. 3) Rull Ris OPERATOR L. Darrow. SOIL & ROCK DESCRIPTION T. Twerdak. RCG GOTECHNICAL. PROSECTED TO THE TWENT OF TWE				1		30									
NV DOUBLE TUBE, SWIVEL  R2  (8.00) Run #2 Drilled from 80" To 130" ROCK REC. 58" 96,7% 9 pcs NW DOUBLE TUBE, SWIVEL  BOTTOM OF HOLE AT 13.00 R  NOTES: 1) No water table encountered. 2) Progressed hole with continuous sampling ahead of casing. 3) Automatic hammer used on sampler.  The subsurface information shown here was obtained for dasign 3) Automatic hammer used on sampler.  DRILL RIG OPERATOR L. Darrow SOIL & ROCK DESCRIPTION T. Twerdak REG GOTISCHINAL PROMOTED TO THE CONTINUAL			R1						(3.00) Run #1 REC	Drilled from	3'0" To 8+ pcs	8'0" RC	OCK "		
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cc	NTRACT	D262	2599 ·	CON	TRAC	тоі	<b>R</b> Agui	fer Drilling &T	esting	SHEET 1	OF 1		НС	LE DN-	X-7

SM 282 PSN REGI COU			_		UM _	8	_		IICAL ENG!	RANSPORT INEERING I	BUREAU		HOLE _ LINE _ STA _		
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-		noo inf	orm of	tion of	hour	horo	was of	tained for de	sian	DRILL RIC	3 OPERA	TOR	L. Darrow		
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of t	the mater t be indica	ial at th ative of	ne site Fthe a	e. Inte actual	erpola mate	ation l irial ei	petwee. ncounte	n data sample ered.	es may	RESIDEN	T ENGIN	EER _			
''0'	, Do maiot					01				STRUCTU	JRE NAM	IE		B.I.N	
cc	NTRAC1	Г D26:	2599	CON	ITRA	СТОР	R Aqu	ifer <u>Drilling &amp;</u>	Testing	SHEET 1	OF 1		НО	LE DN-	X-8

PSN 282 PSN REG COU PIN	ION NTY	242 8 WEST 8101.4	CHES		UM _	9		STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	GINEERING I	BUREAU		HOLE DN-X-9	9	
PRO.	JECT _	HUTCH	HINSC					SERVICE AREA EX	(PANSION			SURF. ELEV. 82.8		
ACTI	UAL CO	ORDIN	IATES		۷) 78 <b>DAT</b>			(E) 704,137.040 22-OCT-2015	_ DATUM DATE F	NAD8		DEPTH TO WATER T-2015	SEE NOTE	
CASII	NG O	D. 4	1/2 ir		I. D			in WT OF HAMMER	-CASING		lb	HAMMER FALL-CASING	G in	
SAME	PLER O		ir	<u> </u>	I. D	. 1	1/2	in WTOFHAMMER	-SAMPLER	140	lb	HAMMER FALL-SAMPL	.ER 30 in	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.				n 18	MOIST. CONT. (%)		DESC	CRIPTION	N OF SC	OIL AND ROCK		
	0.0	J1	2	<u>/ 12</u>	18	<u> 24</u>	5.8%	(0.00) Brown	Silty SAND	Gravelly	W/ Mica		(M-NPL)	
				5	15	18		i , , ,	·	·				
		J2	6				36.7%	(4.00) Brown	Silty SAND	Gravelly	W/Sma	III Pieces Of Wood	(W-ÑPL)	
	5.0	_	-	8	23	15			<u>-</u>					
	(6.50) . Encountered Multiple Boulders To 11.5 Ft.													
	10.0													
		J3	12	13	27		13.4%	(11.50) Brown	Silty SAND	Gravelly	Ŵ/ Mica		(W- <b>N</b> PL)	
	15.0	R1	-	i i		50		(13.40) . (14.00) Run #* REC. NW DO	Top Surf Drilled from 52" 86.7% OUBLE TUB	14'0" T 8+ pc:	ō 19'0" s	ROCK		
		_					:							
								ROTTO	OM OF HOL	E AT 19	.00 ft			
	NOTES:  1) Water level depth after completion of hole: 12'-6"  2) Progressed hole by drilling ahead of casing by 3.8" rollerbit.  3) Automatic hammer used on soil sampler.													
and acc	the subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have excess to the same information available to the State. It is resented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume.  DRILL RIG OPERATOR  SOIL & ROCK DESCRIPTION  T. Twerdak  REG GEOTECHNICAL  ENGINEER  Paul Salchert  DATE APPROVED 11-DEC-2015													
of i	informa the mate t be indic	rial at tl	ne site	. Inte	erpola	ition i	betwee	n data samples may	DATE AP RESIDEN STRUCTU	T ENGIN	EĒR _	B.I.N.		
CC	NTRAC	T <u>D26</u>	<u>2599</u>	CON	ITRA	стоі	R Aqui	ifer Drilling &Testing	SHEET 1	OF 1		HOLE D	N-X-9	

PSN REGI COU PIN PRO	ION NTY _ JECT _		CHES 5 HINSO	TER ON R	IVER	PAF	_ _ _ <u>_</u> <u></u> <u></u>	STATE OF N DEPARTMENT OF T GEOTECHNICAL ENG SUBSURFACE EX	RANSPORT SINEERING E PLORATIO PANSION	BUREAU N LOG			78.92	E NOTE	
CASI	JAL CO		1/2 ii		V) /8 <b>DATI</b> I. E	E ST	ART _	(E) 704,143.500 20-OCT-2015 n WT OF HAMMER-	_ DATUM DATE F	<u>NAD8</u> INISH _	20-OC	DEPTH TO WAT T-2015 HAMMER FALL-CA		·	-  in
	PLER O		iı		i. C			n WT OF HAMMER		140	lb	HAMMER FALL-SA			in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		AMP	VS OI LER 12 18	in 18	MOIST. CONT. (%)		DESC	RIPTION	N OF SO	IL AND ROCK			
	0.0							, ,	·		-	Depth Of Utility			
		J1	4	12	16	10	1.4%	(2.00) Gray Gr						(M-NPL	
	5.0	J2	7	12	8	8	10.4%	(4.00) Brown G	Gravelly SA	ND Silty	W/ Mica			— <u>(M</u> -NPL	-)
	10.0														
	15.0	R1								13'0" T 12+ po	ō 18'0" cs	ROCK			
	NOTES:  1) Water level depth after completion of hole: 9'-6" 2) Automatic hammer used on soil sampler. 3) Drill hole progressed using 3.8" roller bit ahead of casing.														
and acc pre the	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.  DRILL RIG OPERATOR L. Darrow SOIL & ROCK DESCRIPTION T. Twerdak  REG GEOTECHNICAL  ENGINEER Paul Salchert  DATE APPROVED 11-DEC-2015  RESIDENT ENGINEER  STRUCTURE NAME  B.I.N.														
								ifer Drilling &Testing	STRUCTU		1E 		B.I.N	 (-10	
L CC	NIKAL	1 776	<u> </u>	<u> </u>		<u> </u>	<u>∧qu</u>	no. Drining Greating	<u>-</u>						

SM 282 PSN REGI COU PIN	NTY V		HES		JM _	11		DEPARTI GEOTECHI	NICAL ENG	RANSPORT	BUREAU		HOLE LINE STA	DN-X-11	
PRO	JECT H	UTCH	INSC					SERVICE A			NA DO		SURF. ELEV	81.42	- NOTE
ACT	UAL COO	DRUIN	ATES		1) 78 <b>Dati</b>			(E) 704,200 26-OCT-20		_ DATUM DATE F		26-OCT		WATER SE	E NOTE
CASI	NG O. I		1/2 in in		I. D				HAMMER-		140	lb lb	HAMMER FAL		in 30 in
	]				vs or									.,	
CASING BLOWS/ft	DEPTH (t BELOW SURFACE	SAMPLE NO.	,		LER i	in	MOIST.			DESC	CRIPTION	N OF SOI	L AND ROCK		
SH	DE BE	SA	0	6/12		18 24	(%)								
	0.0	J1	1	2			16.3%	(0.00)	Brown S	ilty SAND	Gravelly '	W/ Mica	& Organics		(M-NPL)
				-	4	,									
	<u> </u>					4									
		J2	9					 	Brown S	andy SILT	Gravelly	₩ Mica			- — —(M-NPL)
	5.0	ŲŽ.	$ $	12	40		10%	(4.00)	DIQIIII O	and, oie	0.000,	77, 77,100			`
					10	9									
	<u> </u>	J3	2				25.3 <del>%</del>	(9.00)	Gray Gr	avelly SAN	D Silty V	√ Mica			(W-NPL)
	10.0			9	25										
	<u> </u>					23									
															•
											ᇹᇹᇎᇃ				(W-NPL)
	15.0	J4	8	11			21.4%	(14.00)	Gray Gr	avelly SAN	ID Slity V	V/ IVIICA			(VV-INFL)
					6	2									
						ļ	•	i							
		1	ļ												
		<u> </u> 													
	<u> </u>	J5	12				15.9%	+ - <sub>(19.00)</sub>	Gray Sil	ty SAND G	Gravelly V	√ Mica			(W-NPL)
	20.0			13	24										
		<u></u>				15									
			1		$\perp$		L	<u></u>					5000		
		R1						(23.00)	REC. (	Drilled from 30" 100%	7+ pie	ces	ROUK		
	25.0	1							NW DO	UBLE TUE	₃⊑, SWIV	/EL			
		1				here	W00 05	tained for do:	eian	DRILL RIC	OPERA	TOR	L. Darrov		
and	d estimate	purpo	ses. I	t is n	nade .	availa	able so	tained for des that users m	ay have	SOIL & RO	OCK DES	CRIPTIO			
pre	sented in	good f	aith.	By th	e nati	ure o	f the ex	State. It is ploration pro-	cess,		ER Pau	ıl Salchei			
of t	he materi	al at th	e site.	Inte	erpola	tion b	betweer	of the total von data sample	oiurne es may	DATE API			C-2015		
not	t be indica	tive of	the ac	ctual	matei	rial ei	ncounte	ered.		STRUCTL				B.I.N.	
cc	NTRACT	D262	2599	CON	TRAC	CTOF	R Aqu	ifer Dri <u>lling &amp;</u>	Testing	SHEET 1	OF 2		НС	DLE DN-	X-11

SM 282 PSN REGI	122		ВО	RNUM _	11	(	STATE O DEPARTMENT O GEOTECHNICAL E				HOLE LINE	DN-X-11		
COU	NTY V		CHEST	ER			SUBSURFACE				STA	ft		
1	JECT H	IUTCH	IINSO	(N) 787	',587.	330 (E	SERVICE AREA I E) 704,200.560	DATUM	_NAD		SURF. ELEV	•	SEE NOTE	
CASI			1/2 in in	1. D		in			140	26-OC <sup>-</sup> lb	HAMMER FAL		30	in in
CASING BLOWS/ft														
	25.0													
		•					BOT	TOM OF HOLI	E AT 28	.00 ft				
	NOTES:  1) Water level depth after completion of hole: 10'-6"  2) Progressed hole by drilling ahead of casing with 3.8" rollerbit.  3) Automatic hammer used on soil sampler.  4) Temporarily lost drill wash at 8.5 ft depth.													

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SOIL & ROCK DESCRIPTION \_T. Twerdak

REG GEOTECHNICAL

ENGINEER \_Paul Salchert

DATE APPROVED \_11-DEC-2015

RESIDENT ENGINEER

STRUCTURE NAME B.I.N.

SHEET 2 OF 2 HOLE \_DN-X-11

L. Darrow

**DRILL RIG OPERATOR** 

PSN REGI COU	NTY V	/ESTC	HES		_ ML	12	 	STATE O DEPARTMENT O GEOTECHNICAL E SUBSURFACE	ENGINEERING E	BUREAU		LINE STA	DN-X-12	
PIN PRO		<u>101.45</u> UTCH		NR	IVER	PAF	 RKWAY	SERVICE AREA	EXPANSION			OFFSET SURF. ELEV	82.81	
ACT	UAL COC	ORDIN	ATES		v) 78'		3.860	(E) 704,268.390 23-OCT-2015	DATUM DATE F	NAD8	<u>3</u> 23-OCT	DEPTH TO W	ATER _	SEE NOTE
CASI	NG 0. [	). 4 <sup>-</sup>	1/2 in		J. C		_	in WT OF HAMM				HAMMER FAL	L-CASING	in
SAME	PLER O. I	<b>).</b> 2	in	<u> </u>	I. C	). 1	1/2	n WT OF HAMM	ER-SAMPLER	140	lb	HAMMER FAL	L-SAMPLE	R 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.			VS OI LER		MOIST. CONT. (%)		DESC	CRIPTION	I OF SOIL	_ AND ROCK		
	0.0	J1	1		<b>18</b>	<u> 24</u>	10.5%	(0.00) Brow	n Silty SAND	Gravelly \	N/ Mica 8	& Organics		(M-NPL)
				2	2	6		(3333)	,	•		Ū		
	5.0	J2	30	35	25		15.4%	(4.00) Brow	n Gray Gravel	Ī SAND	Silty W/ I	Mica		(W-NPL)
				ļ			i							
							45-404		Gray Gravelly	- O AND C	Ξι <b>ω∵ \</b> Λ// <b>Ι</b> λλ	ioa		(W-NPL)
	10.0	J3	9	6	4	4	15.4%	(9.00) Dark	Gray Gravelly	SANDS	aity VV/ IVI	IUa		(VV-IVII L)
	15.0	J4	4	6	9	10	16.2%	(14.00) Gray	Sandy SILT (	Gravelly				(W-LPL)
	├ -					10	ŀ							
	<u> </u>							(16.50) . (17.00) .	Assumed Unable To	Top Surf Sample F	face Of R Teavily Fr	ck. ractured Rock	To 22 Ft.	
								. (F	ossible Blaste	d Rock)	,			
	20.0	<u> </u>		! !										
		1												
		R1					<del> </del>	REC	#1 Drilled from 59" 98.3% DOUBLE TUE	5 10+ pc	cs. and 1	ROCK bag		<del></del>
	25.0	]												
and acd pre the	d estimate cess to the esented in information the materi	purpo same good to on repi	ses. infori faith. reseni ie site	It is r matic By th ts one Inte	nade on ava ne nat ly a si erpola	avail ailable ure c mall i	able so e to the of the ex fraction betwee	tained for design that users may hav State. It is ploration process, of the total volume n data samples may	REG GEO	OCK DES TECHNIC ER Pau PROVED	CRIPTIO CAL II Salcher 11-DEC	t		
not	t be indica	tive of	tne a	ctual	mate	nai e	ncounte	ər⊖u.	STRUCTU				B.I.N.	
((	NTRACT	. D263	2599	CON	ITRΔ	стоі	R Agu	ifer Drilling &Testin	SHEET 1	OF 2		НС	DLE DI	V-X-12

GEC	OTECHNICAL ENGINEERING BUREAU	HOLE DN-X-12
IER		STA
(N) 787,658.860 (E) 7	04,268.390 <b>DATUM</b> NAD8	
	WT OF HAMMER-CASING WT OF HAMMER-SAMPLER 140	lb HAMMER FALL-CASING in lb HAMMER FALL-SAMPLER 30 in
BLOWS ON AMPLER in (%)  6 12 18 (%)	DESCRIPTION	N OF SOIL AND ROCK
26	GEO   SUN   SEP   SUN   SEP   SUN   SEP   SUN   SEP   SUN   SEP   SUN   SEP   SUN	DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG  N RIVER PARKWAY SERVICE AREA EXPANSION (N) 787,658.860 (E) 704,268.390 DATUM NAD8 DATE START 23-OCT-2015 DATE FINISH I. D. 4 in WT OF HAMMER-CASING I. D. 1 1/2 in WT OF HAMMER-SAMPLER 140  LOWS ON MOIST. CONT. (%)  MOIST. CONT. (%)

#### NOTES:

- Water level depth at completion of hole: 12'-6"
   Automatic hammer used on soil sampler.
   Hole progressed by spinning casing to rock.

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SOIL & ROCK DESCRIPTION T. Twerdak **REG GEOTECHNICAL** ENGINEER Paul Salchert DATE APPROVED 11-DEC-2015 RESIDENT ENGINEER STRUCTURE NAME B.I.N. HOLE DN-X-12 SHEET 2 OF 2

L. Darrow

DRILL RIG OPERATOR

SM 282 <b>PSN</b>	E 12/02 122	42	В	ORNI	UM	13		STATE OF DEPARTMENT OF	NEW YORK TRANSPORT	ATION		HOLE DN-X-13			
REGI	ON 8		-				_	GEOTECHNICAL EN SUBSURFACE E	IGINEERING E	BUREAU		LINE			
COU		VESTO 101.4		STER			_	SUBSURFACE E	APLORATIO	N LOG	=	STA			
				ON R	IVER	PAF	_ RKWAY	SERVICE AREA EX	KPANSION			SURF. ELEV. 83.74			
	JAL CO							(E) 704,323.760	DATUM	NAD8		DEPTH TO WATER SE	E NOTE		
					DATI			22-OCT-2015	DATE F	NISH _	22-OC1				
CASIN	NG O.I PLER O.I		1/2 ir ir		I. C I. C			in WT OF HAMMEF in WT OF HAMMEF		140	lb lb	HAMMER FALL-CASING HAMMER FALL-SAMPLER	in 30 in		
		D. <u>2</u>					1/2	III VVI OF MANUALE	N-SAMIFLEIN	140	10	TIABINENT ALL-OADII LER			
CASING BLOWS/ft	DEPTH # BELOW SURFACE	SAMPLE NO.			VS OF LER		MOIST. CONT. (%)		DESC	RIPTION	N OF SOI	L AND ROCK			
	0.0	J1	2	12	<b>18</b>	24	5.6%	(0.00) Brown	Silty SAND (	Gravelly \	W/ Mica	& Organics	(M-NPL)		
				3	ŀ		1,	(5.55)	<b>,</b>			•	, ,		
			1		4	8									
  -	<u> </u>		1			"									
	<u> </u>														
		Ì	Ì												
Ì	<del>-</del> -	J2	35				8.4%	(4.00) Brown	Gravelly SAI	ND Silty	W/ Mica		(M-NPL)		
	5.0			30											
					22	35									
		1	İ					(6.00)	Encounte	ered A B	oulder To	8.5 Ft.			
	13 3 1 36 2% (9.00) Brown Gravelly SAND Silty W/ Mica & Organics (W-NPL)														
J3 3 36.2% (9.00) Brown Gravelly SAND Silty W/ Mica & Organics															
	10.0	JJ	l °	2			56.2%	(9.00) Blown	Glavelly OA	ND SIII	vv/ iviica	& Organios	(** / ** = /		
	10.0	1			11										
		<u> </u>				11									
			1												
	ļ					]		(13.30)	Top Surf						
	<u> </u>	R1					1	(14.00) Run#	1 Drilled from	14'0" T	ō 19'0"	ROCK			
	15.0							NW D	56" 93.3% OUBLE TUB	11+ pi E, SWIV	ieces ⁄EL				
										,					
		1													
-	I	<u> </u>		Ш	1	<u> </u>	1	BOTT	OM OF HOL	E ÄT 19.	.00 ft				
			NOT	Ec.											
			1) N	Vater	level	dept	h at co	mpletion of hole: 12	-O"						
			2) A	utom	atic f	namn	ner use	d on soil sampler.							
			<i>3)</i> P	rogre	738EQ	urni	пов ву	spiriniy casing to r	oon.						
									122						
The	subsurf	ace inf	ormat	ion si	hown	here	was ob	tained for design	DRILL RIG			L. Darrow  T. Twerdak			
l acc	ess to the	e same	infor	rmatic	on ava	ailabl	e to the	that users may have State. It is	REG GEO			1. I WOI WAR	<u> </u>		
pre	sented in	aood	faith.	By th	he nai	ture c	of the ex	ploration process,	ENGINE	ER Pau	ul Şalche				
of t	he mater	ial at th	ne site	e. Inte	erpola	ation	betwee.	of the total volume n data samples may	DATE API			C-2015			
not	be indica	ative of	the a	nctual	mate	rial e	ncounte	ered.	RESIDEN'			B.I.N			
											- <b>-</b>	_			
CC	NTRACT	D26	<u> 2599</u>	CON	ITRA	СТО	R <u>Aqu</u>	ifer Drilling &Testing	SHEET 1	OF 1		HOLE DN-	X-13		

SM 282 PSN REGI	122 ON _8	242 3 WEST(			UM _	14	_	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION GEOTECHNICAL ENGINEERING BUREAU SUBSURFACE EXPLORATION LOG  STA  HOLE DN LINE STA	I-W-14					
PIN		3101.45	5			DAE	— —	OFFSET <u>ft</u> SERVICE AREA EXPANSION SURF. ELEV. 8						
				1)_ {	V) 78	7,585	5.810	(E) 704,074.930 <b>DATUM</b> NAD83 <b>DEPTH TO WAT</b>	ER SEE NOTE					
CASI	ie o	D. 4	1/2 ir		DATI		_	20-OCT-2015	ASING in					
_	LER O.		ir		I. C			WT OF HAMMER-SAMPLER 140 Ib HAMMER FALL-SA	MPLER 30 in					
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		AMP	VS OI LER	in	MOIST. CONT. (%)	DESCRIPTION OF SOIL AND ROCK						
- ш	0.0	J1	2	12 6	18		14.1%	(0.00) Brown Silty SAND Gravelly W/ Mica & Organics	(M-NPL)					
		J2	4		5	6	11.1%	(2.00) Brown Silty SAND Gravelly W/ Mica & Organics	(M-NPL)					
				7	8	7		(4.00) Brown Silty SAND Gravelly W/ Mica	<del>(M-N</del> PL)					
	5.0	J3	12	15	30	30	9.5%	(4.00) Brown Silty SAND Gravelly William	(м-(м 2)					
		J4	25	27	38	30	4.2%	(6.00) Brown Silty SAND Gravelly W/ Mica	(M-NPL)					
,		J5	25			45	10.3%	(8.00) . Encountered A Cobble (8.50) Brown Gravelly SAND Silty W/ Mica	(M-NPL)					
	10.0	(M-NPL)												
10.0 %														
-	BOTTOM OF HOLE AT 16.00 ft													
	NOTES:  1) Water level depth at completion of hole: 7'-6"  2) Automatic hammer used on soil sampler.  3) Progressed hole with continuous sampling ahead of casing.													
and acc pre the of no	The subsurface information shown here was obtained for design and estimate purposes. It is made available so that users may have access to the same information available to the State. It is presented in good faith. By the nature of the exploration process, the information represents only a small fraction of the total volume of the material at the site. Interpolation between data samples may not be indicative of the actual material encountered.  DRILL RIG OPERATOR L. Darrow SOIL & ROCK DESCRIPTION T. Twerdak REG GEOTECHNICAL ENGINEER Paul Salchert DATE APPROVED 11-DEC-2015 RESIDENT ENGINEER STRUCTURE NAME B.I.N.  CONTRACT D262599 CONTRACTOR Aquifer Drilling &Testing SHEET 1 OF 1 HOLE DN-W-14													

PSN REGI COU! PIN	NTY <u>N</u>	/ESTC	CHES	TER				DEPARTA GEOTECHI SUBSURI	TATE OF NEV MENT OF TRA NICAL ENGINE FACE EXPL	ANSPORT. IEERING E ORATIO	BUREAU			ft	5	
	JAL COC							<u>SERVICE A</u> (E) 704,039		DATUM	NAD8	3	SURF. ELEV. DEPTH TO WA		SEE NO	TF
7010	JAL OOC		A1		DATE			14-OCT-20		DATE FI					<u> </u>	·
CASIN			1/2 ir	1	I. D				HAMMER-CA			lb	HAMMER FALL-			in
SAMP	LER O.D	). 2	ir	1	i. D	. 1	1/2 i	in WT OF	HAMMER-SAI	MPLER	140	lb	HAMMER FALL-S	SAMPLE	₹ 30	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	AMP		n 18 24	MOIST. CONT. (%)						L AND ROCK			
	0.0	J1	1	6	9	12	11.1%		Brown Gra	·	·				·	M-NPL)
		J2	30	35	42	50	6.1%		Light Brow						·	М-NPL)
		J3	35				14.4%		Brown Gra		ND Silty irface Of			·	(!	M-NPL)
	5.0 R1 							( <del>5.00</del> )	Run #1 Dri REC. 55" NW DOUB	illed from ' 91.7% BLE TUBI	5'0'' To 11+ pi E, SWIV	10'0" R eces EL	ōck			
	10.0								воттом	OF HOLE	AT 10.	00 ft				

### NOTES:

- 1) No water table encountered.
- Automatic hammer used on soil sampler.
   Progressed hole with continuous sampling ahead of casing.

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L. Darrow DRILL RIG OPERATOR SOIL & ROCK DESCRIPTION T. Twerdak **REG GEOTECHNICAL** ENGINEER Paul Salchert DATE APPROVED 11-DEC-2015 RESIDENT ENGINEER STRUCTURE NAME B.I.N. HOLE DN-W-15 SHEET 1 OF 1

SM 282 PSN REGI COU	NTY V		CHES		UM _	16	_	STATE OF DEPARTMENT OF GEOTECHNICAL EN SUBSURFACE EX	TRANSPORT SINEERING I	BUREAU		HOLE LINE STA OFFSET	DN-X-16	
PRO	JECT 📑	HUTCH	HINS					SERVICE AREA EX	PANSION			SURF. ELEV.	80.53	
ACT	UAL CO	ORDIN	IATES	S _(		7,57 <b>E ST</b>		(E) 704,105.240 21-DEC-2015	_ DATUM DATE F	<u>NAD8</u>	33 21-DE0	<b>DEPTH TO WA</b> C-2015	ATER SE	E NOTE
CASI			1/2 i	n	l. E	D. 4		in WT OF HAMMER	-CASING	_	lb	HAMMER FALL-		in
	PLER O.	<b>D</b> . 2		n	1. [		3/4	in WT OF HAMMER	-SAMPLER	140	lb	HAMMER FALL-	-SAMPLER	30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S		NS O	in	MOIST. CONT. (%)		DESC	CRIPTIO	N OF SOI	IL AND ROCK		
고표	Seg	Ŝ	0 6	12	12	18 24	' '							
	0.0	J1	5	8	13		12.1%	(0.00) Brown \$	Silty SAND	Gravelly	W/ Mica	& Organics		(M-NPL)
	<u> </u>	J2	9		ļ	18	9.6%	(2.00) Brown (	Fravelly SA	ND Siltv	W/ Mica			(M-NPL)
		"-		26	20	16	0.070	(2.00)	oraron, or					
	<u> </u>	J3	15			16	7.5%	(4.00) Brown (	Gravelly SA	ND Silty	W/ Mica			(M-NPL)
	5.0			11	13	13								
!	<u> </u>	J4	9	47		10	9.7%	(6.00) Brown	Gravelly SA	ND Silty	W/ Mica			(M-NPL)
	_	-		17	14	10								
		J5	11	9			14.8%	(8.00) Brown	Gravelly SA	ND Silty	W/Mica			(W-NPL)
		1			12	9								1
	10.0	J6	11	<u> </u>		"	16.7%	(10.00) Brown	Silty SAND	Gravelly	W/Mica			(W-NPL)
		1		14	24									
	<u> </u>	J7	8			25	16.8%	(12.00) Brown	Silty SAND	Gravelly	W/Mica			(W-NPL)
		-		9	9									
	<u> </u>	J8	12	<u> </u> 		9	17.2%	(14.00) Brown	Silty SAND	Gravelly	W/ Mica			(W-NPL)
	15.0			13	12				,					
		ļ			'-	12								
								<u> </u>	Top Of Ro	ck Surfa	ce			
						ļ	<u>L</u>				. — ==. = .=			
		R1					Ţ	(18.00) Run #1 REC.	55" 91.7%	9 pied	ces	ROCK		
	20.0							NW DO	OUBLE TUE	iE, SWI\	/EL			
		1												
-	BOTTOM OF HOLE AT 23.00 ft													
			NOT 1) V	ES: Vater	table	dep	th note	d during progression (	of hole: 8'-	·O"				
The	a subsurf	ace infe	ormet	ion si	hown	here	was ob	tained for design	DRILL RIC	OPER/	ATOR	D. Carter		
and	d estimate	e purpo	ses.	It is r	made	avail	able so	that users may have State. It is	SOIL & RO	OCK DES	SCRIPTIC	N <u>⊤. Twerdak</u>	<u> </u>	
pre	sented in	good i	faith.	By th	ne nat	ture c	f the ex	ploration process, of the total volume	ENGINE	E <b>R</b> Par	ul Salch <u>e</u>			
of t	he mater be indica	al at th	ie site	, Inte	erpole	ation i	betweer	n data samples may	DATE API			N-ZU 10		
riot	. D <del>u</del> INGICA	iuve OT	ин а	uudl	male	riai C	iooant	ovu.	STRUCTU	IRE NAM	NE		B.I.N	
co	NTRACT	D262	2 <u>599</u>	CON	ITRA	СТО	R Aqui	fer Drilling &Testing	SHEET 1	OF 2		HOL	E DN->	K-16

CM 000 F 40	nion													
SM 282 E 12 PSN	2/02 1224	12	BOF	RNUM <u>1</u>	6		PARTMENT (	OF NEW YORK OF TRANSPOR				DN-X-16	3	
REGION	I <u>8</u>							ENGINEERING			LINE .			
COUNTY	<b>Y</b> W	/ESTC	HESTI	ER		SUE	SURFACE	EXPLORATION	ON LOG		STA			
PIN	8	101.45									OFFSET	ft		
PROJEC	т Т	UTCH	INSON	RIVER P	ARKWA	SER\	/ICE AREA	<b>EXPANSION</b>			SURF. ELEV	80.53		
ACTUAL				(N) 787,5			4,105.240		NAD	83	DEPTH TO W	ATER _	SEE NOTE	<u> </u>
				DATES		21-D	EC-2015	DATE	INISH	21-DE0	C-2015			1
CASING	Q. [	D. 41	/2 in	I. D.	4	in V	NT OF HAMN	ER-CASING		lb	HAMMER FAL	L-CASING		in
SAMPLE	R 0. [	<b>)</b> . 2	in	I. D.	1 3/4	in V	NT OF HAMIN	IER-SAMPLER	140	lb	HAMMER FAL	L-SAMPLE	R 30	in
CASING BLOWS/ft DEPTH ft	BELOW	SAMPLE NO.		OWS ON MPLER in	MOIST CONT. (%)			DES	CRIPTIC	N OF SOI	IL AND ROCK			

2) Progressed hole by continuous sampling ahead of casing.3) Automatic hammer used on soil sampler.

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CONTRACT D262599 CONTRACTOR Aguifer Drilling & Testing

SOIL & ROCK DESCRIPTION	. i werdak
REG GEOTECHNICAL	
ENGINEER Paul Salchert	
DATE APPROVED 15-JAN-2010	<u>6</u>
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N
SHEET 2 OF 2	HOLE DN-X-16

D. Carter

DRILL RIG OPERATOR

	E 12/02	10	D	2011	15.4	47			ATE OF NE		ATION			I V 17		
PSN REGI	<u>1224</u> ON 8	+2	В	ORNU	ואוכ _	17	_	GEOTECHN	ENT OF TR ICAL ENGIN				HOLE DI	N-V-11		
COU		/ESTC	HES	TER			_	SUBSURF	ACE EXP	LORATIO	N LOG		STA			-
PIN		101.45			••••								OFFSET ft			_
								SERVICE A					SURF. ELEV.			_
ACTL	JAL COC	RDIN	ATES					(E) 704,019.		DATUM		<del></del>	DEPTH TO WAT	ER SE	E NOTE	<u>—</u> Ì
CASIN	IG 0. [	. 4	1/2 ir		DATI	E <b>S</b> 17 D. 4	_	28-DEC-20	15 HAMMER-C	DATE F	INISH	28-DE0	∠-∠015 HAMMER FALL-C/	ASING		in
	LER O.		1/2 II <b>i</b> I			). 4 ). 1			HAMMER-SA		140	ib	HAMMER FALL-SA		30	in
				21.01	UC 01								,		•	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.		BLOV AMP			MOIST.				~~. <del>~~</del> .~					
AS	EP1 JRF	¥Ζ				18 /	CONT.			DES	SKIPHON	OF SOI	L AND ROCK			
0 =	S	တ	6				` '									
	0.0	J1	4				20.1%	(0.00)	Brown Sil	ty SAND	Gravelly \	W/ Mica	& Organics		(M-NF	, <u>L)</u>
				3												
					3	4										
ŀ		J2	4				20.1%	(2.00)	Brown Sil	ty SAND	Gravelly i	W/ Mica			(M-NF	₹L)
		;		4				,								
					8	12										
ŀ		J3	9				13.1%	(4.00)	Brown Sil	tv SAND	Gravelly \	W/ Mica			(M-NF	žΓ)
	5.0			19				, ,,,		•	,					
					17	22										
ŀ		J4	20				10.1%	(6.00)	Brown Sili	tv SAND	Gravelly \	W/ Mica			— — (M-NĒ	īL)
				28				<b>()</b>			•				·	
		1.5	<u> </u>	L	49	50	40.00/			Top Cur	ace Of R					
		J5 R1	50			50	18.6%	(7.50)	Run #1 D				оск			
								(0.00)	REC. 59	" 98.3%	8 piece	es				
									NW DOU	BLE TUB	E, SWIV	EL				
	10.0															
					1		'									
				1		•			BOTTOM	OF HOL	E AT 13.	00 ft				
		1	NOTI	ES:												
			1) No	o wat	er tal	ble e	ncounte	red.		مط ملا ممن	na					
			2) PI 3) Ai	ogre: utom:	ssed atic h	riole amm	with co er used	ntinuous san I on soil sam	nping anea pler.	au oi casi	ng.					
			•,			•										
Ì																

DRILL RIG OPERATOR The subsurface information shown here was obtained for design SOIL & ROCK DESCRIPTION T. Twerdak and estimate purposes. It is made available so that users may have access to the same information available to the State. It is **REG GEOTECHNICAL** presented in good faith. By the nature of the exploration process, ENGINEER Paul Salchert the information represents only a small fraction of the total volume DATE APPROVED 15-JAN-2016 of the material at the site. Interpolation between data samples may RESIDENT ENGINEER not be indicative of the actual material encountered. STRUCTURE NAME

SHEET 1 OF 1

HOLE DN-X-17

B.I.N.

D. Carter

CASIN		/ESTC 101.45 UTCH DRDINA	HES	TER ON RI	IVER	PAF 7,47' E <b>ST</b> /	 RKWAY 1.040 <b>ART</b>	DEPARTM GEOTECHN SUBSURF SERVICE / (E) 703,956 24-DEC-20 in WT OF	.820	ANSPORT NEERING B LORATION ANSION DATUM DATE F ASING	BUREAU IN LOG NAD8	3 24-DEC lb	LINE _ STA _ OFFSET _ SURF. ELEV. DEPTH TO W	ATER SE	i	in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	E	BLOV AMP	VS OI LER	N in	MOIST. CONT. (%)			DESC	CRIPTION	N OF SOII	L AND ROCK			
	0.0	J1 J2	1	1 4	2	2	12.8%	(2.00)	Brown Silf Brown Silf	īy SÄND	Gravelly	W/ Mica `	nics		(M-NPL	
	5.0	J3	15	50			4.8%	(5.00)	Brown Silf Run #1 Di REC. 60 NW DOUI	rilled from " 100% BLE TUB	n 5′0" To 8+ piec E, SWIV	10'0" Ro ces EL	DCK		(D)	

### NOTES:

- No water table encountered.
   Progressed hole with continuous sampling ahead of casing.
- 3) Automatic hammer used on soil sampler.

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SOIL & ROCK DESCRIPTION T. Twerdak **REG GEOTECHNICAL** ENGINEER Paul Salchert DATE APPROVED 15-JAN-2016 RESIDENT ENGINEER B.I.N. STRUCTURE NAME HOLE DN-X-18 SHEET 1 OF 1

DRILL RIG OPERATOR

D. Carter

SM 282 PSN REG COU PIN	NTY V		HES		M	19		STATE O DEPARTMENT O GEOTECHNICAL E SUBSURFACE E	NGINEERING	BUREAU		HOLE _C LINE _ STA _	)N-X-19 ft		
PRO.	JECT H	UTCH	IINSC					SERVICE AREA E	XPANSION DATUM	NAD8	3	SURF. ELEV. DEPTH TO WA	82.1	E NOTE	
					DATE	STA	ART _	22-DEC-2015	DATE F		22-DE				
CASII	NG O. I		1/2 ir ir		I. D. I. D.			n WT OF HAMME n WT OF HAMME		140	lb lb	HAMMER FALL-S	<del>-</del>	in 30 in	
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S 0	AMP	VS ON LER ii	n 18	MOIST. CONT. (%)		DES	CRIPTION	N OF SO	IL AND ROCK			
	0.0	J1	1	3	7 187	24	15%	(0.00) Brown	Silty SAND	Gravelly	W/ Mica	& Organics		(M-NPL)	
		J2	3	6	9	3	12.5%	(2.00) Brown	Gravelly SA	ND Silty	₩/ Mica			- — (M-NPL)	
	5.0	J3	11	5	56	16	11.9%`	(4.00) Brown						(M-NPL)	
								(5.50) . E	ncountered	9 <sup>III</sup> Of Cor	ncrete O	ver 9" Of Gravelly	y Sand.		
								(7.00)	Orilled Concre	ete To 8.4	Ft.				
	10.0   Top Surface Of Rock.														
	R1 (10.00) Run #1 Drilled from 10'0" To 13'0" ROCK REC. 34" 94.4% 9+ pieces														
	R1 (10.00) Run #1 Drilled from 10'0" To 13'0" ROCK REC. 34" 94.4% 9+ pieces NW DOUBLE TUBE, SWIVEL  R2 (13.00) Run #2 Drilled from 13'0" To 15'0" ROCK														
	REC. 15" 62.5% 2 pieces NW DOUBLE TUBE, SWIVEL														
!	BOTTOM OF HOLE AT 15.00 ft														
	BOTTOM OF HOLE AT 15.00 ft  NOTES:  1) Water level depth 2 days after completion of hole: 12'-7"  2) Progressed hole with continuous sampling ahead of casing.  3) Automatic hammer used on soil sampler.														
and acc pre the	d estimate cess to the sented in informati	purpo e same good f on repi	ses. infort faith. resent	It is n matio By th ts onl	nade a n avai e natu v a sn	availa ilable ire o nall f	able so e to the f the ex raction	tained for design that users may have State. It is ploration process, of the total volume	REG GEC	OCK DES TECHNIC ER Pau	CRIPTIC CAL ul Salche	ert			
of t	he materi be indica	al at th tive of	e site the a	. Inte ctual	erpola: mater	tion l ial ei	betweei ncounte	n data samples may ered.	RESIDEN	T ENGIN	EER _		B.I.N		

SHEET 1 OF 1

CONTRACTOR

HOLE DN-X-19

SM 282 PSN REGI COU					UM _	20		DEPARTI GEOTECHI	MENT OF NICAL EN	NEW YORK TRANSPOR GINEERING (PLORATION)	TATION BUREAU	N. J. J. J. J. J. J. J. J. J. J. J. J. J.	HOLE LINE STA	DN-X-20		- -
PIN PRO	JECT H	101.45 UTCH	5 IINSC	ON R	IVER V) 78	7,512	2.020	SERVICE / (E) 703,944	.270	DATUN	NAD8		OFFSET SURF. ELEV. DEPTH TO W		EE NOTE	-  -
CASI	NG O.E		1/2 ir	1	DATE I. D	). 4	i		HAMMER	DATE I -CASING -SAMPLER	140	31-DE( lb lb	C-2015 HAMMER FALI HAMMER FALI			n n
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S O	AMP		in 18	MOIST. CONT. (%)			DES	CRIPTIO	N OF SOI	IL AND ROCK			
	0.0	J1	1	3	8	∕ <b>24</b>	13.2%	(0.00)	Brown	Silty SAND	Gravelly	W/ Mica	& Organics		(M-NPL	7
		J2	5	5	5		26.7%	(2.00)	Brown	Šilty SĀNŌ	Gravelly	W/ Mica	& Organics		— (M-ÑPL	2
	5.0	J3	30	10	11	5	15.7%	(4.00)	Brown	Silty SAND	Gravelly	W/Mica	& Organics		(M-NPL	<u></u>
		J4	47	77	50	41	6.2%	(6.00)	Brown	Gravelly SA	Ā∖W dn <i>Ā</i>	/lica			(M-NPL	<u>.)</u>
20	10.0	J5 R1	50				12.8%	(7. <u>50)</u> (8.00)	Run #1 REC. NW DO	Drilled from 58" 96.7% DUBLE TUB	6 18+ p 3E, SWIV	5 13'0" R ieces /EL	OCK			
			NOTE 1) No 2) Pi	o wat	ter tal	ble e hole	ncounte with co	ered. ontinuous sa		OM OF HOI		.00 ft				
								minuous sa. d on soil san		ioud or ode	my.					

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DRILL RIG OPERATOR \_\_\_\_\_\_ D. Carter
SOIL & ROCK DESCRIPTION \_\_\_\_\_ T. Twerdak
REG GEOTECHNICAL
ENGINEER \_\_Paul Salchert
DATE APPROVED \_\_15-JAN-2016
RESIDENT ENGINEER
STRUCTURE NAME \_\_\_\_\_\_ B.I.N.

SHEET 1 OF 1 HOLE \_\_\_\_\_\_ DN-X-20

PSN REG COU PIN PRO	ION 8 NTY V 8	VEST( 101.4	- CHES 5 HINSO	ON R	IVER N) 78	PAF	  RKWAY 7.560	DEPARTME GEOTECHNI SUBSURFA UNC SERVICE AF (E) 704,047.0	CAL ENGII ACE EXP DFFICI REA EXP 050	ANSPORT NEERING I LORATIC AL LO ANSION DATUM	BUREAU IN LOG G NAD83	3	LINE STA OFFSET SURF. ELEV DEPTH TO V		E NOTE
CASI	NG O. I		1/2 ir ir	n	DAT 1. 0 1. 0	). 4			<u>5</u> AMMER-CA AMMER-SA		140		HAMMER FAL HAMMER FAL		in 30 in
CASING BLOWS/ft	DEPTH ft BELOW SURFACE	SAMPLE NO.	S	BLOV AMP	LER	in 18	MOIST. CONT. (%)			DESC	RIPTION	OF SOIL	AND ROCK		
	0.0	J1	7	12	4		14.7%	(0.00)	Brown Silt	y SAND (	Gravelly V	V/ Mica &	Organics		(M-NPL)
,		J2	3	2	7	3	6.6%	(2.00)	Brown Gr	avelly SA	ND Silty V	V/Mica			<sub>(D)</sub>
	5.0	J3	13	12	20	12	2.8%	(4.00)	Light Brov	vn Gravel	Īy SAND :	Sility W/ N	Mica		<sub>(D)</sub>
		J4	33	80	44	21	2.9%	(6.00)	Light Brov	vn Gravel	Iy SAND	Silty W/ N	/lica		<sub>(D)</sub>
		J5	222	6	26	25	10.9%	(8.00)	Brown Gr	avelly SĀ	ND Silty V	V/ Mica			(M-NPL)
	10.0	J6	32	35	36	44	7.9%	(10.00)	Brown Gr	avelly SA	ND Silty V	V/Mica			(M-NPL)
				Ė		50		(11.75)		Top Surf	ace Of Ro	ock.			
	15.0	R1						1	Run #1 D REC. 41 NW DOU	" 99.9%	12+ pie	eces	OCK		
		R2		<u> </u>	ļ			`	Run #2 D REC. 20 NW DOU	" 99.8%	4 piece	S	OCK		
and	l estimate ess to the	ace info	2) Pi 3) Al	later i rogre utoma ion sh It is m matio	ssed atic h nown nade n ava	hole amm here availa ilable	was obtable so a to the	s after completentinuous same d on soil same d an soil same dained for designates that users may State. It is	pling ahea bler. gn [ r have ]	ole: 11'-3' ad of casi DRILL RIG	ng.	TOR	D. Carter	ak	***
pre the of t	sented in information	good f on repi al at th	faith. reseni ie site	By th ts onl	e nat y a si erpola	ure o mall f ntion l	f the ex raction of betweer	ploration proce of the total volu n data samples	ess, ume : may	ENGINE DATE API RESIDEN	ER	ER	NOFFICIA	AL LOG	

SOIL & ROCK DESCRIPTION	T. Twerdak
REG GEOTECHNICAL	
ENGINEERU	NOFFICIAL LOG
DATE APPROVED	
RESIDENT ENGINEER	
STRUCTURE NAME	B.I.N
SHEET 1 OF 1	HOLE DN-X-21

# STRUCTURE 3N HUTCHINSON RIVER PARKWAY (SECTION #4)

REG	26 (2770 ION	'' ¦	ρ				STATE OF NE DEPARTMENT OF TRA		1104 TO TONTO 940	
t .	NTY _	Wes	tche		r		SOIL MECHANICS	<del></del>	HOLE DNB-840	
PIN			01.2				SUBSURFACE EXPL	ORATION LOG	STA 329+05	
1	JECT . SERIÉ		chir	ison	. R1	ver	Parkway (Section #4)		OFFSET 110 'Lt SURF. ELEV. 71.5	
COO	RD, LO	c.	N361	., 80	07	E665	<b>5,3</b> 55		DEPTH TO WATER*6	5'
DAT	E STAI	RT _	6/3	8/85			DATE FINISH6/6	/85		
CASI	NC	0	D. 4	<u> </u>   "	i	. n :	7/8" WEIGHT OF HAMMER	CASING 300 LES	HAMMED EALL CASING	10#
1	PLER	0.	D. 2	11		I.D.	12" WEIGHT OF HAMMER	SAMPLER 300 LBS.	HAMMER FALL - SAMPLE	R 18"
u	i	i	·····	LOW		···				-
DEPTH BELOW SURFACE	NG ON	٦, E		AMP			DEC		DOCK	14
DEP BEL SUR	CASI	SAMPLE NO.	0/	5 /	1.0/	1.5		CRIPTION OF SOIL AND	RUCK	MOIST.
<b>-</b> 0	m	1	2.5	****		2.0	Moist Brown Sandy Silt	w/Poots & Fibers /	Non Plactic)	23
	10	2	3	2		<del> </del>	Moist Brown	Myroca a Linera (i	Wil Liastic)	23
_	12				4		· _ · ^ - ^ · ^ · · · · · · · · · · · · · ·			
_	21 38					ļ				
_	79	3	13	8			Moist Brown Gravelly Sa	and Silty (Non Plas	cic)	11
-	77				5		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
-	63 65				-	-				
_'01_	63									19
_	62	4	12	8		<u> </u>	Moist Brown			
_	92 70		<del> </del>	ļ	10	-				
_	61.									
	74 103	5	17	-	-	<u> </u>	Moist Brown			10
-	170	]	1.7	<u> </u>	15	<u> </u>	- DIOWIT			
_	222									
 	531 678		-	<b> </b>						
20'-	314	6	17	42		<del>                                     </del>	Moist Brown			13
-	348				ļ	ļ				
	437	REFUS	SAL	<del> </del>	╁			Run #1 2	3'-28'	
								Recov	ered 38"	
-	118	-	<del> </del>	<del> </del>	<u> </u>	-	Schist	Multip	te breces	
-	1 8		-		+	1				
_	11,				ļ	ļ		Run #2	28'-33' ered 54"	
30'-	╅		╅	-	+-	+-		Recov 12 Pie	œs	
-	E						Schist			
-	Y	3		-	1	<del> </del>	Bottom of Boring is 33	t *Franchered	Water at 61	
-		-	-	<del> </del>	+-		1			1
_							NOTE: Drilled rock fr	om 23'0" to 33'0" w	ith Christensen	
-	-	<del> </del>	+-	-	+	+	Core Barrel.			
:	1		1							
40'-			-	-	-	+				
-		+		-	-	+-				
					1					
			+		-	+				
-		<del>                                     </del>	+	+-	+					
				1_						
		-	+-	-	<del> </del> -	-				
				<u>.</u>						
							IOWN HEREON WAS OBTAINED	DRILL RIG OPERATOR	W. Marvin	
							PURPOSES. IT IS MADE AVAIL- 'THAT THEY MAY HAVE	SOIL & ROCK DESCRIP	S. Whitney	<del>//</del>
							N AVAILABLE TO THE STATE.	REGIONAL SOILS ENG	R. Herbert W. Lit	 :ts
IT	IS PRES	SENTE	DINI	GOOD	FAI	TH, B	UT IS NOT INTENDED AS A	STRUCTURE NAME/NO	, STRUCTURE 3N	
							INTERPRETATION OR			
JU	IDGMEN	IT OF S	SUCH	AUT	HOR	ZED	USERSSM		HOLE DNB-840	
CUN	IIKAC	IUK_					· ·			

## STRUCTURE 3N HUTCHINSON RIVER PARKWAY (SECTION #4)

REGI							DEPARTMENT OF SOIL MECHA	NEW YORK TRANSPORTATION NICS BUREAU  HOLE DNB-841	
PIN	VTY_	8101.	23				SUBSURFACE EX	STA 32/TIU	
SOIL	SERIE	S						SURF. ELEV. 71.2	
COOL	RD. LC	C.	N36 6/2	1,6° 6/85	70 5	E66	55,195 DATE FINISH 7/2	DEPTH TO WATER *5'	
SAME	NG PLER	0.I 0.I	D. <u>4</u> D	ર્કુ" 2"	 	I.D. 3 I.D	3-7/8" WEIGHT OF HAMMI 11/2" WEIGHT OF HAMMI	ER - CASING 300 LBS. HAMMER FALL - CASING 18" ER - SAMPLER 300 LBS. HAMMER FALL - SAMPLER 18"	
DEPTH P BELOW SURFACE	OWS ON ASING	SAMPLE NO.	S	LOW	LEF	₹			IST.
- 0	1 3 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	3	1.5	5 1.0	1.5	1.5	Moist Brown Sandy Sil	i i	6
-	2 5 2	2	i	i	1		Wet Brown Sandy Silt	(Non Plastic) 32	2
	2 54								
	68 126		10	8	9		Moist Brown Gravelly	Sand Silty (Non Plastic) 10	0
_	133 249					<b></b>			
10'_	595 552		22	30			Moist Brown		6
-		on 6		30	60			Run #1 11'6"-16'6"	
_	8						Schist	Rec. 42"  Multiple pieces	
_	1-12								
-	圓			ļ <u>.</u>				Run #2 16'6"-21'6"  Rec. 48"	
20'	RATABL						<u> </u>	Multiple pieces	
-	<b>  Y</b>	<u> </u>	-				Pottem of Porince is	*Encountered Water at 5'	
-							1	k from 11'6" to 21'6" w/Christensen core barrel	
							Note: Diffred for	CILLIA II O CO ZI O W CIRLISTANCIA GATO ASSAULT	
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TH	E SUBS	URFA	CEIN	FORM	<u>I</u> ЛАТІ	ON S	HOWN HEREON WAS OBTAINED	a rat 11	
A	BLE TO	AUTHO	RIZE	ED US	ERS	ONL	PURPOSES. IT IS MADE AVAIL- Y THAT THEY MAY HAVE	SOIL & ROCK DESCRIP. S. Whitney REGIONAL SOILS ENGR. Subject to the second seco	
A(	CESS T	O THE	SAM	EINF	ORN	ATIC	ON AVAILABLE TO THE STATE. BUT IS NOT INTENDED AS A	SHEET 1 OF 1 Herbert W. Litts STRUCTURE NAME/NO. STRUCTURE 3N	
St	IBSTITI	JTE FO	R IN	VEST	IGAT	TIONS	S, INTERPRETATION OR USERS.		
CON	ITRAC	TOR			., on		SM	HOLE DNB-841	
L	**************************************					J.,,			

REGION 8 COUNTY Westchester PIN 8101.23 PROJECT Hutchinson River SOIL SERIES COORD. LOC. N362,180 E665 DATE START 7/22/85  CASING 0.D. 2 7/8" I,D. 2								HOLE <u>DAC-851</u> LINE <u>SB</u> STA <u>333+50</u> OFFSET 0' SURF. ELEV. <u>98.0</u> DEPTH TO WATER*No Wate	er Enc			
SAMP	LER	0. 0.	D	7/8 2" LOW	1	D _	WEIGHT OF HAMMER WEIGHT OF HAMMER	- CASING 300 LBS. - SAMPLER 300 LBS.	HAMMER FALL - CASING 18 HAMMER FALL - SAMPLER 18	}# }#		
DEPTH BELOW SURFACE	h.i.d	SAMPLE NO.	\$	5/1.0	LER	<b>.</b>	DESC	SCRIPTION OF SOIL AND ROCK				
= 0 ====	2	1	1	3			Moist Brown Sandy Silt	Gravelly w/Fibers	(Non Plastic)	25 12		
	17 34	2	<u>  1</u>	3	3 4		Moist Brown			-		
	39						American de la companya del la companya del la companya de la comp	constitutives consisting and restricted the sixty of the second of the s				
	1							Run #1 4'	-6' l piece - Seamy -9'	-		
_	I						Schist	Run #2 6'	9!			
								Rec. 26"	10 pieces			
_10'_	¥						Bottom of Boring is 9	*No Water E	ncountered	-		
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FOI ABI ACI IT I SUI	R STAT LE TO CESS T S PRES BSTITU	E DES AUTHO O THE BENTE TE FO	IGN A PRIZE SAMI DIN ( RIN)	ND E D US E INF GOOD /ESTI	STIN ERS ORM FAI GAT	MATE ONLY ATIO TH, B IONS,	IOWN HEREON WAS OBTAINED PURPOSES. IT IS MADE AVAIL- THAT THEY MAY HAVE N AVAILABLE TO THE STATE. UT IS NOT INTENDED AS A INTERPRETATION OR	DRILL RIG OPERATO SOIL & ROCK DESCRI REGIONAL SOILS EN SHEET 1 OF STRUCTURE NAME/N	P. S. Whitney GR. A. Herbert W. Litts			
JU	GMEN	T OF S	SUCH	AUT	HORI	ZED	USERS.		HOLE DAK-851			
CON.	IKAC	IUR_					SM	<u>, , , , , , , , , , , , , , , , , , , </u>				

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SOIL	TY 81 ECT SERIE	West 01.2 Hutc	ches 3 hins	son	Rix		STATE OF NEW DEPARTMENT OF TRAI SOIL MECHANICS SUBSURFACE EXPLO Parkway (Section #4)	NSPORTATION   HOLE   DAC-852     BUREAU   LINE   SB     STA   336+25     OFFSET   0     SURF, ELEV. 97.8	
COOR		RT	7/:	L6/8	35		DATE FINISH7/1	7/85 DEPTH TO WATER*NO WA	
CASIN SAMP	LER	0.1 0.1	p. <sup>2</sup>	7/8' 2 <b>"</b>	<u>'</u>   _	.D .D	24" WEIGHT OF HAMMER · WEIGHT OF HAMMER ·	CASING 300 LBS. HAMMER FALL - CASING SAMPLER 300 LBS. HAMMER FALL - SAMPLER	18" 18"
DEPTH BELOW SURFACE	BLOWS ON CASING	SAMPLE NO.	5	LOW AMP	LER			RIPTION OF SOIL AND ROCK	MOIST. CONT.
= 0 <del>===</del> -	4	I	I	1	_			w/Fibers. (Non Plastic).	21 10
_	7 44	2	2	3	1 10		Moist Brown Sandy Silt	Gravelly w/Fibers (Non Plastic)	
	**							Run #1 4'-7'6"  Rec. 14" Multiple pieces	
	DRI SOCK							Run #2 7'6"-10'6"  Rec. 18" Multiple pieces	auropatoricoptisis
-10 <b>-</b> -	Y		-					'6" *No Water Encountered.	
_								3'.0" to 4'.0"	
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CON	JDGME ITRAC	NT OF	SUCH	רטא ו	HOR	IIZED	USERS SM	HOLE DAC-852	

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### STRUCTURE 3N HUTCHINSON RIVER PARKWAY - SECTION #4

SM 282e (2/76)

REG	ON _	8					DEPARTMENT OF TRAI							
	ALL_		esto		ter		SOIL MECHANICS SUBSURFACE EXPLO	DATION LOC	LINE NB Ø	_				
PIN			101.						STA 327+50	_				
	SERII		utcr	ııns	on	KIV	er Parkway - Section #4	CIED	OFFSET 100'Lt. E. ELEV. 73.9	$-\mid$				
			N36	51.6	77	E66	5 <u>, 2</u> 67	SUKI DEP	TH TO WATER <u>*8'0"</u>	-				
DAT	E STA	RT	2/7	7/89	)		DATE FINISH2/8/89		THE TO WATER					
									2.0%					
CASI		0.	D. <u>2</u>	7/8	<u>"</u> !	.D. <u>.</u>	214" WEIGHT OF HAMMER -	CASING 300 LBS. HAMME	ER FALL - CASING 18"					
	LER	0.	D	<u>Z"</u>	_ '	.D	WEIGHT OF HAMMER -	SAMPLER 300 LBS. HAMMI	ER FALL - SAMPLER 10					
DEPTH BELOW SURFACE	Z	l <sub>ui</sub>		LOW						İ				
LOW RFF	NS C	SAMPLE NO.	2	AMP	LEF	t	DESC	DESCRIPTION OF SOIL AND ROCK						
RE SU	S A	SAN	0/.5	5/	1.0	1.5/			CO:	NT.				
0 —	6	1	1	2	/1.5	/2.0		SAND Gravelly w/Organic						
	17	-	=		4	<del> </del>		aren indicara Milorania						
	28													
_	5	ļ												
	8 21	2	3	8			Moist Brown Gravelly SA	ND Silty	(N-PL) 15					
-	46	<del> </del> _			6			ND DITCY						
	85													
_	90	ļ												
_10'	46 52	3	14	16	1		Mojat Perm		13					
	57	1 -	14	**********	18					1				
	65													
	77													
_	175	CE R	.0000	-A T	ONT		ത്രൂട്ട . അംഗ്രീട്ടു ഒരു പ്രവേശി ഗ്രഷ്ട്രം പ്രത്യാപ് അവര് പ്രാവ്യാസ് പ്രത്യാവര് പ്രവേശിച്ചു പ്രത്യിക്കുന്നു. അ	The Hall Design of Every	15100 to 20100					
<b>1</b>		ING A						Run #1 Drilled from Rec. 32" -	32 Pieces					
	Last.		<u> </u>											
			<u> </u>			ļ								
<b>2</b> 0' ∔	-	<del> </del>	-		-	-	BLACK & WHITE SEAMY	Run #2 Drilled from	20'0" to 25'0"					
	H	+	<del> </del>	<u> </u>	<del> </del>		T MILITSS (NAKO & SOLT)	Rec. 42" - 2	26 Pieces	1				
THE CONTRACTOR				<u> </u>										
		ļ	ļ	ļ		<u> </u>								
25'0	<del> </del>	1	<u> </u>		-	-	Pottem of Borir	g. is. 25'.0" *Encounte	ered Water at 8'0"	1				
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-	ļ <u>-</u>	-	<b>_</b>	ļ	<del> </del>	-	NOTE: After taking s	amples (dry hole),						
-	1		<del> </del>	<del> </del>	$\vdash$		removed.large	boulders 0-2'0".						
<b>–</b>							NOTE: Good water ret	urn.						
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							HOWN HEREON WAS OBTAINED	DRILL RIG OPERATORJai	mes V. Daley	<del></del>				
							PURPOSES, IT IS MADE AVAIL-	SOIL & ROCK DESCRIP. G	Brannam	—				
							THAT THEY MAY HAVE N AVAILABLE TO THE STATE.	SOIL & ROCK DESCRIP. GREGIONAL SOILS ENGR. SHEET 1 OF 1	Herbert W. Litts					
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รบ	BSTITE	JTE FO	R IN	/ESTI	GAT	IONS,	INTERPRETATION OR	SECT	ION #4/STRUCTURE #3N					
JU	DGME	NT OF S	UCH	AUT	IORI	ZED	USERS.		IOLE DAB-1006					
CON	TRAC	TOR _		···-			SM	ļ:	IOLE DAB-1006					

### STRUCTURE #3N HUTCHINSON RIVER PARKWAY

	2e (2/76	()							STATE OF NE	W YORK				}
REGI			3	T					RTMENT OF TRA			HOLE	DAB-1007	
COUN	4 <b>T</b> Y	<del></del>	Vest		ster					ORATION LOG		LINE	NB ⊄	
PIN			3101				— _					STA	328+50	
1	ECT		lutci	מתנמ	son	Riv	er Par	kway -	Section #4		<del></del> -	OFFSET	160'Lt.	
1	SERIE		1261	701	) E/	65	277				5	URF. ELEV.	/U.8	
DATE	CD. LI	OC <u>1</u> RT	3/2	789	) L(	, co	<u> </u>	TE ENO	sH3/3/	89	D	EPTH TO WA	ATER*3' belo	761
DAIL	L SIA	K 1		,			DA	IE FINI	3n	·			ground ie	/61
CASII	NG	0.	0.2	7/8'	' <sub>1.</sub>	D.	2½"	WEIGHT	OF HAMMER	- CASING 300 L	LBS. HA	MMER FALL	- CASING 18	3"
SAMP		0.1	$2^{-1}$	ir	_ 1.	D.	1½"	WEIGHT	OF HAMMER	- SAMPLER 300 L	BS. HA	MMER FALL	- SAMPLER 18	3"
لدا	Ī	]	D.I	LOW:										
F ≹ H	S S	SAMPLE NO.	1	AMPI										<b>_</b>
EE.C	SNS	불운							DES	CRIPTION OF SOIL	AND ROC	CK		MOIST.
DEPTH BELOW SURFACE	A O	15	0/.5	5/1.0	1.0	2.0								%
- 0	2	I	1	I			Moist	Brown	Fine Sandy	SILT w/Org.			(N-PL)	60
	6	2	1	1			Moist	Brown	Fine Sandy	SILT w/Org. & M	/lica	Mary mayor make the state of th	(N-PL)	36
	16				2									
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	32 51	3	9	10			economic and analysis	AND THE RESERVE THE STREET	e uma se establishe de la companie de la companie de la companie de la companie de la companie de la companie d	nord vertical design of scale in the state of the scale in the state of the state o	an-o manasionine diament	de la comparte que conservada em serva seguina em conservada em conservada em conservada em conservada em cons	/N7 TYT \	
	45	<u> </u>	-	10	10		Morst	Prówi i	Gravetty S	AND Silty w/Mica	<u>.</u>		[W-hr]	14
	73	<b></b> -												-
	72	<b> </b>												
_10 <u>'</u> _	92							Deline Communication		polymorphysically interesting the commence of				_ ]
	150	4	18	16			Moist	Brown	Silty SAND	Gravelly			(N-PL)	1.8
A	150	ļ		<u>.                                    </u>	50		and the second control of		en en en en en en en en en en en en en e	Run #1 Dri]	lled fr	om 11'2" t	o .13'2"	
-	BOUN	CERI NG &	EFUS	AL (	JN I	211				Rec.	<u>. 18" -</u>	.13 Pieces	edin to the lather dependence of the second	_
H	LCHOL	אַ טען	pru	OIN	<u> </u>	4				Run #2 Dril	lled fn	om 13'2" †	o 18'2"	-
ROCK	<del>                                     </del>	<del>                                     </del>		-				BEIDEO		Rec.	. 60" -	37 Pieces	5	
-	1						Black	& Whi	te (Ineiss					
	ļ	ļ										3 <u>0 ( or</u> 4	-1-101 (Off 1111)	
20 - A	<del> </del>	ļ					<b>-</b>			Run #3 Dri Rec	Tied in	om 182 t	O 21 4	
21 2		ļ					an and the second secon	m or		Rec.	* 36		Carrent A. Park College Andrews College	
-		1	<del>  </del>				 F	Rottom	of Boring	is 21'2"	*Encou	ntered Wat	er @ 3'0"	
-	<del> </del>	<del> </del>					<b>.</b> *	~ • • • • • • • • • • • • • • • • • • •	war take an aye.		below	ground le	evel.	
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TH	E SUBS	SURFAC	EINF	ORM	ATIC	DN SH	OWN HE	REON WAS	S OBTAINED	DRILL RIG OPERA		James V.	Daley	
FO	R STA	TE DES	GN A	ND E	STIM	ATE	PURPOSE	S. IT IS MA	ADE AVAIL-	SOIL & ROCK DES	CRIP.	G Branh	iam	
FO AB	R STA	TE DES	IGN AI IRIZEI	ND E	STIM Ers (	ATE ONLY	PURPOSE THAT TH	S. IT IS MA IEY MAY	ADE AVAIL- HAVE	SOIL & ROCK DES	ENGR	G Branh	am W. Lilla erbert W. Li	tts
FO AB AC	R STATE	TE DES AUTHO O THE	IGN AI IRIZEI SAME	ND E: D US! .INFO	STIM ERS ( DRM/	ATE YUNC IOITA	PURPOSE THAT TH N AVAILA	S. IT IS MAY IEY MAY IBLE TO T	ADE AVAIL- HAVE HE STATE.	SOIL & ROCK DES	ENGR	G Branh Halinfi UTCHINSON	rbert W. Li RIVER PARKW	AY
FO AB AC	R STATES TO SEE STATES TO SECURITION.	TE DES AUTHO O THE SENTEI	IGN AI RIZEI SAME D IN G	ND EI D USI INFO OOD	STIM ERS ( DRM/ FAIT	ATE YANCY OITA IB, H1	PURPOSE THAT TH N AVAILA UT IS NOT	S. IT IS MAY LEY MAY LBLE TO T FINTENDI	ADE AVAIL- HAVE THE STATE. ED AS A	SOIL & ROCK DES	ENGR	G Branh Halinfi UTCHINSON	am W. Lilla erbert W. Li	AY
FO AB AC IT SU	R STATE LE TO CESS TO SERVICE PRESENTE	TE DES AUTHO O THE SENTEI JTE FO	IGN AI RIZEI SAME D IN G R INV	ND ESTI	STIM ERS ( DRM/ FAIT GATI	ATE ONLY OTIOI TH, B! ONS,	PURPOSE THAT TH N AVAILA UT IS NOT INTERPR	S. IT IS MAY IEY MAY IBLE TO T	ADE AVAIL- HAVE THE STATE. ED AS A	SOIL & ROCK DES	ENGR	G Branh Kulum Fulnison FCTION #4/	erbert W. Liverbert W. Liver PARKW. STRUCTURE 31	AY
FO AB AC IT SU JU	R STATELE TO CESS TO SPRESENTE	TE DES AUTHO O THE SENTEI JTE FO	IGN AI RIZEI SAME D IN G R INV	NO EI D USI INFO OOD ESTII AUTH	STIM ERS ( DRM/ FAIT GATI IORI	ATE I ON LY ATIOI FH, B! ONS, ZED I	PURPOSE THAT TH N AVAILA UT IS NOT INTERPR JSERS.	S. IT IS MAY LEY MAY LBLE TO T FINTENDI	ADE AVAIL- HAVE THE STATE. ED AS A OR	SOIL & ROCK DES	ENGR	G Branh Kulun He UTCHINSON ECTION #4/	rbert W. Li RIVER PARKW	AY